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MEDICAL ECONOMICS

THOMSON HEALTHCARE

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Hyzaar-Cont.

tients with a history of hepatic impairment (see WARN-INGS, Impaired Hepatic Function). Losartan can be administered once or twice daily at total daily doses of 25 to 100 mg. If the antihypertensive effect measured at trough using -a-day dosing is inadequate, a twice-a-day re the same total daily dose or an increase in dose may give a

more satisfactory response. Hydrochlorothiazide is effective in doses of 12.5 to 50 mg once daily and can be given at doses of 12.5 to 25 mg as

HYZAAR.
To minimize dose-independent side effects, it is usually appropriate to begin combination therapy only after a patient has failed to achieve the desired effect with monotherapy. The side effects (see WARNINGS) of losartan are generally rare and apparently independent of dose; those of hydrochlorothiazide are a mixture of dose-dependent (primarily hypokalemia) and dose-independent phenomena (e.g., pancreatitis), the former much more common than the latter. Therapy with any combination of losartan and hydrochlorothiazide will be associated with both sets of dose-independent. thiazide will be associated with both sets of dose-indepen-

Replacement Therapy: The combination may be subti-

Replacement Therapy: The combination may be subti-tuted for the titrated components.

Dose Thration by Clinical Effect: A patient whose blood pressure is not adequately controlled with losartan mono-therapy (see above) may be switched to HYZAAR 50-12.5 (losartan 50 mg/hydrochlorothiazide 12.5 mg) once daily. If blood pressure remains uncontrolled after about 3 weeks of

blood pressure remains uncontrolled after about 3 weeks of therapy, the dose may be increased to two tablets of HYZ-AAR 50-12.5 once daily or one tablet of HYZ-AAR 100-25 (losartan 100 mg/hydrochlorothiazide 25 mg) once daily. A patient whose blood pressure is inadequately controlled by 25 mg once daily of hydrochlorothiazide, or is controlled but who experiences hypotalemia with this regimen, may be switched to HYZ-AAR 50-12.5 (losartan 50 mg/hydrochlorothiazide 12.5 mg) once daily, reducing the dose of hydrochlorothiazide utilization without the daily of the control of the dose of hydrochlorothiazide utilization without the daily of the control of the second of the daily of the daily of the control of the daily of the dai chlorothiazide without reducing the overall expected anti-hypertensive response. The clinical response to HYZAAR 50-12.5 should be subsequently evaluated and if blood pres-sure remains uncontrolled after about 3 weeks of therapy, the dose may be increased to two tablets of HYZAAR 50-12.5 once daily or one tablet of HYZAAR 100-25 (losartan 100 mg/hydrochlorothiazide 25 mg) once daily. The usual dose of HYZAAR is one tablet of HYZAAR 50-12.5 once daily. More than two tablets of HYZAAR 50-12.5 once

daily or more than one tablet of HYZAAR 100-25 once daily is not recommended. The maximal antihypertensive effect is

statained about 3 weeks after initiation of therapy.

Use in Patients with Renal Impairment: The usual regimens of therapy with HYZAAR may be followed as long as the patient's creatinine clearance is >30 mL/min. In pa-

the patient's creatinine clearance is >30 mL/min. In patients with more severe renal impairment, loop diuretics are preferred to thiazides, so HYZAAR is not recommended. Patients with Hepatic Impairment: HYZAAR is not recommended for titration in patients with hepatic impairment (see WARNINGS, Impaired Hepatic Function) because the appropriate 25 mg starting dose of losartan cannot be given. HYZAAR may be administered with other antihypertensive

HYZAAR may be administered with or without food.

HOW SUPPLIED

No. 3502—Tablets HYZAAR, 50-12.5 are yellow, teardrop shaped, film-coated tablets, coded MRK 717 on one side and HYZAAR on the other. Each tablet contains 50 mg of losartan potassium and 12.5 mg of hydrochlorothiazide. They are

supplied as follows: NDC 0006-0717-31 unit of use bottles of 30

NDC 0006-0717-31 unit of use bottles of 30
NDC 0006-0717-58 unit of use bottles of 90
NDC 0006-0717-58 unit of use bottles of 100
NDC 0006-0717-28 unit dose packages of 100
NDC 0006-0717-28 unit of use bottles of 1,000
Shown in Product Identification Guide, page 323
No. 3783—Tablets HYZAAR 100-25 are light yellow, tear-drop shaped, film-coated tablets, coded MRK 747 on one side and HYZAAR on the other. Each tablet contains 100 mg side and it LAAAR on the other. Each tablet contains 100 mg of losartan potassium and 25 mg of hydrochlorothiazide. They are supplied as follows:

NDC 0006-0747-31 unit of use bottles of 30

NDC 0006-0747-28 unit dose packages of 100

Shown in Product Identification Guide, page 323

Store at 25°C (77°F); excursions permitted to 15–30°C (59– 86°F) [see USP Controlled Room Temperature]. Keep container tightly closed. Protect from light.

Manufactured for: MERCK & CO., INC., West Point, PA 19486, USA

DuPont Pharma, Wilmington, DE 19880 USA 7892813 Issued December 1999 COPYRIGHT © MERCK & CO., Inc., 1995 All rights reserved.

INDOCIN® Capsules, Oral Suspension and (Indomethacin)

DESCRIPTION

INDOCIN* (Indomethacin) cannot be considered a simple analgesic and should not be used in conditions other than those recommended under INDICATIONS.

INDOCIN is supplied in three dosage forms. Capsules IN DOCIN for oral administration contain either 25 mg or 50 mg of indomethacin and the following inactive ingredients: colloidal silicon dioxide, FD & C Blue 1, FD & C Red 3, gelatin, lactose, lecithin, magnesium stearate, and titanium di-oxide. Suspension INDOCIN for oral use contains 25 mg of indomethacin per 5 mL, alcohol 1%, and sorbic acid 0.1% added as a preservative and the following inactive ingredients: antifoam AF emulsion, flavors, purified water, sodium hydroxide or hydrochloric acid to adjust pH, sorbitol solu-tion, tragacanth. Suppositories INDOCIN for rectal use contain 50 mg of indomethacin and the following inactive ingredients: butylated hydroxyanisole, butylated hydroxytolu ene, edetic acid, glycerin, polyethylene glycol 3350, polyethylene glycol 8000 and sodium chloride. Indomethacin is a non-steroidal anti-inflammatory indole derivative designated chemically as 1-(4-chlorobenzoyl)-5-methoxy-2methyl-1H -indole-3-acetic acid. Indomethacin is practically insoluble in water and sparingly soluble in alcohol. It has a pKa of 4.5 and is stable in neutral or slightly acidic media and decomposes in strong alkali. The suspension has a pH of 4.0-5.0. The structural formula is:

*Registered trademark of MERCK & CO., Inc.

CLINICAL PHARMACOLOGY

INDOCIN is a non-steroidal drug with anti-inflammatory, antipyretic and analgesic properties. Its mode of action, like that of other anti-inflammatory drugs, is not known. However, its therapeutic action is not due to pituitary-adrenal

INDOCIN is a potent inhibitor of prostaglandin synthesis in vitro. Concentrations are reached during therapy which have been demonstrated to have an effect in vivo as well Prostaglandins sensitize afferent nerves and potentiate the action of bradykinin in inducing pain in animal models. Moreover, prostaglandins are known to be among the mediators of inflammation. Since indomethacin is an inhibitor of prostaglandin synthesis, its mode of action may be due to a decrease of prostaglandins in peripheral tissues. e of prostaglandins in peripheral tissue

INDOCIN has been shown to be an effective anti-inflamm tory agent, appropriate for long-term use in rheumatoid ar-thritis, ankylosing spondylitis, and osteoarthritis. INDOCIN affords relief of symptoms; it does not alter the

rogressive course of the underlying disease.

INDOCIN suppresses inflammation in rheumatoid arthritis as demonstrated by relief of pain, and reduction of fever swelling and tenderness. Improvement in patients treated with INDOCIN for rheumatoid arthritis has been demon strated by a reduction in joint swelling, average number of joints involved, and morning stiffness; by increased mobility as demonstrated by a decrease in walking time; and by improved functional capability as demonstrated by an increase in grip strength.

methacin has been reported to diminish hasal and CO, stimulated cerebral blood flow in healthy volunteers follow ing acute oral and intravenous administration. In one study after one week of treatment with orally administered indo methacin, this effect on basal cerebral blood flow had disappeared. The clinical significance of this effect has not been etablished

Capsules INDOCIN have been found effective in relieving the pain, reducing the fever, swelling, redness, and tender-

ness of acute gouty arthritis—see INDICATIONS.
Following single oral doses of Capsules INDOCIN 25 mg or 50 mg, indomethacin is readily absorbed, attaining peak plasma concentrations of about 1 and 2 mcg/mL, respectively, at about 2 hours. Orally administered Capsules IN-DOCIN are virtually 100% bicavailable, with 90% of the dose absorbed within 4 hours. A single 50 mg dose of Oral Suspension INDOCIN was found to be bioequivalent to a 50 mg INDOCIN capsule when each was administered with

thacin is eliminated via renal excretion, metabolism and biliary excretion. Indomethacin undergoes appreciable enterohepatic circulation. The mean half-life of indomethacin is estimated to be about 4.5 hours. With a typical therapeutic regimen of 25 or 50 mg t.i.d., the steady-state plasma concentrations of indomethacin are an average 1.4 times those following the first dose.

The rate of absorption is more rapid from the rectal suppository than from Capsules INDOCIN. Ordinarily, therefore the total amount absorbed from the suppository would be expected to be at least equivalent to the capsule. In controlled clinical trials, however, the amount of indomethacin absorbed was found to be somewhat less (80-90%) than that absorbed from Capsules INDOCIN. This is probably because some subjects did not retain the material from the suppository for the one hour necessary to assure complete absorption. Since the suppository dissolves rather quickly rather than melting slowly, it is seldom recovered in recognizable form if the patient retains the suppository for more than a few minutes.

Indomethacin exists in the plasma as the parent drug its desmethyl, desbenzoyl, and desmethyl-desbenzyl tabolites, all in the unconjugated form. About 60 percent drug and property and pro an oral dosage is recovered in urine as drug and metabolic (26 percent as indomethacin and its glucuronide); and percent is recovered in feces (1.5 percent as indomethacin percent is recovered in teces (1.0 percent as automethacian).

About 99% of indomethacian is bound to protein in play. About 93% of muomentant in the apeutic plasma contextrations. Indomethacin has been found to cross the blood brain barrier and the placenta.

brain barrier and the placesto.

In a gastroscopic study in the healthy subjects, the number of gastric mucosal abnormalities was significantly higher in the healthy subjects. astric mucosal abnormanues was signmeanly night in group receiving Capsules INDOCIN than in the group receiving Capsules INDOCIN or placebo.

the group receiving capsures in a count than in the group taking Suppositories INDOCIN or placebo.

In a double-blind comparative clinical study involving 11, patients with rheumatoid arthritis, however, the incidenin a country of patients with rheumatoid arthrus, now of upper gastrointestinal adverse effects with Suppositors of upper gastrointestinal adverse effects wit or Capsules INDOCIN was comparative.

INDICATIONS

Indomethacin has been found effective in active stages of the following:

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ness Recess.

- Moderate to severe rheumatoid arthritis including acuts Bares of chronic disease.

 Moderate to severe ankylosing spondylitis.
- 3. Moderate to severe osteoarthritis.
 4. Acute painful shoulder (bursitis and/or tendinitis). gouty arthritis.

INDOCIN may enable the reduction of steroid dosage in patients receiving steroids for the more severe forms of rhead matoid arthritis. In such instances the steroid desage;

matoid arthrius. In such instances the service dosage should be reduced slowly and the patients followed reputions of the closely for any possible adverse effects.

The use of INDOCIN in conjunction with aspiring of other salicylates is not recommended. Controlled clinical studies. have shown that the combined use of INDOCIN and aspirin does not produce any greater therapeutic effect than the me of INDOCIN alone. Furthermore, in one of these clinical studies, the incidence of gastrointestinal side effects was significantly increased with combined therapy (see DRUG INTERACTIONS).

CONTRAINDICATIONS

INDOCIN should not be used in:

Patients who are hypersensitive to this product. Patients in whom acute asthmatic attacks, urticaria, or this nitis are precipitated by aspirin or other non-steroidal and

inflammatory agents.
Suppositories INDOCIN are contraindicated in patient Suppositories INDOCIN are contramucated in the with a history of proctitis or recent rectal bleeding. Particularly supposed in the contraction of the contraction of

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WARNINGS

General:

Because of the variability of the potential of INDOCIN to cause adverse reactions in the individual patient, the fal lowing are strongly recommended:

1. The lowest possible effective dose for the individual patient should be prescribed. Increased dosage tends to increase adverse effects, particularly in doses over 150-200 mg/day, without corresponding increase in clinical bo

2. Careful instructions to, and observations of, the individual patient are essential to the prevention of serious adverse reactions. As advancing years appear to increase the possibility of adverse reactions, INDOCIN should be used with greater care in the elderly.

Effectiveness of INDOCIN in pediatric patients has not been established. INDOCIN should not be prescribed for pediatric patients 14 years of age and younger unless tor-icity or lack of efficacy associated with other drugs war rants the risk.

In experience with more than 900 pediatric patients reported in the literature or to the manufacturer who were treated with Capsules INDOCIN, side effects in pediatric patients were comparable to those reported in adults. So perience in pediatric patients has been confined to the use of Capsules INDOCIN.

If a decision is made to use indomethacin for pediatric patients two years of age or older, such patients should be monitored closely and periodic assessment of liver func-tion is recommended. There have been cases of hepatotoricity reported in pediatric patients with juvenile rheuma toid arthritis, including fatalities. If indomethacin tree ment is instituted, a suggested starting dose is 2 mg/kg/day given in divided doses. Maximum daily dosage should not avered 4 mg/kg/days. not exceed 4 mg/kg/day or 150-200 mg/day, whichever is less. As symptoms subside, the total daily dosage should be reduced to the control of be reduced to the lowest level required to control symp toms, or the drug should be discontinued.

Gastrointestinal Effects:

Single or multiple ulcerations, including perforation and hemorrhage of the esophagus, stomach, duodenum or small and large intestine, have been reported to occur with INDO. CIN. Fatalities have been reported in some instance Rarely, intestinal ulceration has been associated with stenosis and obstruction.

Gastrointestinal bleeding without obvious ulcer formation and perforation of pre-existing sigmoid lesions (divertical lum, carcinoma, etc.) have occurred. Increased abdominal

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